## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

1. (Currently Amended) A solid fuel for generating a gaseous fuel for use in a fuel cell, comprising:

an oxygenate compound selected from the group consisting of metal oxygenates, gelled oxygenates, frozen oxygenates, and mixtures thereof; and

a solid oxidant, wherein the solid oxidant is selected from the group consisting of sodium percarbonate, carbamide hydrogen peroxide, organic peroxides, and mixtures thereof.

- 2. (Original) The solid fuel of claim 1 wherein the gelled oxygenates comprise a mixture of an oxygenate and a polymer.
- 3. (Original) The solid fuel of claim 2 wherein the gelled oxygenate comprises:

an oxygenate selected from the group consisting of alcohols, aldehydes, organic acids, ethers, diols, triols, ketones, diketones, esters, carbonates, oxalates, sugars, and mixtures thereof; and

a polymeric mixture selected from the group consisting of acrylic acid based polymers, acrylic amide based polymers, copolymers of polyols, copolymers of oligomers containing OH groups with formaldehyde, ethylene/acrylic acid copolymers with amine emulsifiers, carbonyl vinyl polymers, polyacrylic acid polymers, olefin-maleic anhydride copolymers, and mixtures thereof.

4. (Original) The solid fuel of claim 3 wherein the gelled oxygenate comprises:

methanol in an amount of at least 30 weight percent; and an acrylic polymer in an amount of at least 3 weight percent.

5. (Previously Presented) The solid fuel of claim 7 wherein the gelled oxygenate comprises:

acetaldehyde in an amount of at least 30 weight percent; and an acrylic polymer in an amount of at least 3 weight percent.

- 6. (Original) The solid fuel of claim 2 wherein the gelled oxygenate further comprises a metal or metal compound, where the metal is selected from the group consisting of alkali metals, alkaline earth metals, and mixtures thereof.
- 7. (Previously Presented) A solid fuel for generating a gaseous fuel for use in a fuel cell comprising:

an oxygenate;

a polymer; and

a metal or metal compound, wherein the metal or metal compound is selected from the group consisting of magnesium hydroxide (Mg(OH)<sub>2</sub>), magnesium oxide (MgO), magnesium methoxide (Mg(OCH<sub>3</sub>)<sub>2</sub>), magnesium (Mg), magnesium hydride (MgH<sub>2</sub>), and mixtures thereof.

- 8. (Previously Presented) The solid fuel of claim 1 wherein the frozen oxygenate comprises a mixture of an oxygenate and a material selected from the group consisting of alcohols, glycols, hydrocarbons, sugar esters, metal alkoxides, and mixtures thereof, having melting points at temperatures greater than 26°C.
- 9. (Original) The solid fuel of claim 1 wherein the metal oxygenate comprises a metal selected from the group consisting of lithium (Li), sodium (Na), potassium (K), beryllium

- (Be), magnesium (Mg), calcium (Ca), rubidium (Rb), cesium (Cs), strontium (Sr), barium (Ba), aluminum (Al), and mixtures thereof.
- 10. (Original) The solid fuel of claim 9 wherein the metal is selected from the group consisting of lithium, sodium, potassium, magnesium, and mixtures thereof.
- 11. (Original) The solid fuel of claim 2 further comprising an additive wherein the additive is chosen to substantially absorb all the carbon dioxide produced.
- 12. (Original) The solid fuel of claim 11 wherein the additive is a compound selected from the group consisting of alkali metal oxide, alkali metal hydroxide, alkaline earth metal oxide, alkaline earth metal hydroxide, and mixtures thereof.
- 13. (Canceled)
- 14. (Canceled)
- 15. (Currently Amended) The solid fuel of claim 1[[4]] further comprising a solid catalyst selected from the group consisting of transition metals, oxides of transition metals, and mixtures thereof.
- 16. (Original) The solid fuel of claim 15 wherein the catalyst is selected from the group consisting of oxides of Mn, oxides of Fe, and mixtures thereof.
- 17. (Previously Presented) A solid fuel for generating a gaseous fuel for use in a fuel cell, comprising:

an oxygenate compound selected from the group consisting of metal oxygenates, gelled oxygenates, frozen oxygenates, and mixtures thereof, wherein the oxygenate comprises a metal alkoxide or a metal aldehyde having from 1 to 12 carbons.

18. (Original) The solid fuel of claim 17 wherein the alkoxide is a methoxide or an ethoxide.

19. (Original) The solid fuel of claim 1 further comprising a metal hydride selected from the group consisting of lithium hydride, magnesium hydride, sodium hydride, potassium hydride, aluminum hydride, and mixtures thereof.